ELSEVIER

Physiology & Behavior, Vol. 64, No. 7, pp. 773–780, 1998
© 0 Elsevier Science Inc. All rights reserved.
Printed in the U.S.A.
0031-9384/−1900 $19.00 + .00

CONTENTS

VOLUME 64, 1998

CONTENTS VOLUME 64 NUMBER 1 1998

Articles

High-Fat Diets and Stress Responsivity
KAMARA, K., R. ESKAY AND T. CASTONGUAY 1

Short-term Growth: Evidence for Chaotic Series of Mini Growth Spurts in Rat Growth
HERMANUSSEN, M., M. A. ROL DE LAMA, J. A. F.-TRESGUERRES, L. GRASEDYCK AND J. BURMEISTER 7

Behavioral Assessment of the Senescence-accelerated Mouse (SAM p8 and R1)
MARKOWSKA, A. L., E. L. SPANGLER AND D. K. INGRAM 15

Feeding-induced Tonic Pain Suppression in the Chicken: Reversal by Naloxone
WYLIE, L. M. AND M. J. GENTLE 27

Plasma Testosterone Levels Are Related to Various Aspects of Locomotor Activity in Wild-Caught Male Meadow Voles (*Microtus pennsylvanicus*)
PERROT-SINAL, T. S., D. INNES, M. KAVALIERS AND K.-P. OSSENKOPP 31

Measuring Gustatory Variation in Mice: A Short-term Fluid-Intake Test
DREWNOWSKI, A., S. A. HENDERSON AND A. BARRATT-FORNELL 37

NaCl Appetite in Two Strains of Rat Reported to Be Resistant to Mineralocorticoid-induced Hypertension
ROWLAND, N. E. 49

Grooming in *Lucher* Mutant Mice
STRAZIELLE, C. AND R. LALONDE 57

Prenatal Exposure to Ethanol Disrupts Spatial Memory: Effect of the Training–Testing Delay Period
MATTHEWS, D. B. AND P. E. SIMSON 63

Effect of Intracerebroventricular Injection of Atropine on Metabolic Responses during Exercise in Untrained Rats
LIMA, N. R. V., C. C. COIMBRA AND U. MARUBAYASHI 69

Learning in Year-Old Female Autoimmune BXSB Mice
BOEHM, G. W., G. F. SHERMAN, B. J. HOPLIGHT II, L. A. HYDE, D. M. BRADWAY, A. M. GALABURDA, S. A. AHMED AND V. H. DENENBERG ... 75

Detecting Subtle Differences in Behavior Using Waveform Display Analysis
CAMPBELL, K. M., R. M. ROHLAND, M. J. McGRATH, S. D. SATOSKAR AND F. H. BURTON 83

A Comparison of Feeding to Cephalic Stimulation on Postprandial Sleepiness
HARNISH, M. J., S. R. GREENLEAF AND W. C. ORR 91

Provisional Quantitative Trait Loci (QTL) for the Aschoff Effect in RI Mice
HOFSTETTER, J. R. AND A. R. MAYEDA 95

Interaction of Stress, Smoking, and Dietary Restraint in Women
MITCHELL, S. L. AND K. A. PERKINS 101

Involvement of the Anterodorsal Thalami Nuclei on the Hypophysoadrenal Response to Chronic Stress in Rats
SUÁREZ, M., M. A. MAGLIANESI AND N. I. PERASSI 111

Brief Communication

Ethanol's Effects on Operant Responding: Differentiating Reinforcement Efficacy and Motor Performance
PETRY, N. M. 115

CONTENTS VOLUME 64 NUMBER 2 1998

Articles

Y Chromosome, Urinary Chemosignals, and an Agonistic Behavior (Offense) of Mice
MONAHAN, E. J. AND S. C. MAXSON 123

Chemosensory Learning in the Chicken Embryo
SNEDDON, H., R. HADDEN AND P. G. HEPPER 133

Food Intake Responses to Upper Gastrointestinal Lipid Infusions in Humans
CASTIGLIONE, K. E., N. W. READ AND S. J. FRENCH 141

Propylthiouracil Tasting as a Possible Genetic Association Marker for Two Types of Alcoholism
DICARLO, S. T. AND A. S. POWERS 147

Behavioral and Electromyographic Characterization of the Local Frequency of Tacrine-induced Tremulous Jaw Movements
COUSINS, M. S., A. ATHERTON AND J. D. SALAMONE 153

Effects of Methysergide and Loratadine on Food Intake, Mood, and Performance of Humans Living in a Residential Laboratory
COMER, S. D., M. HANEY, A. S. WARD, M. W. FISCHMAN AND R. W. FOLTIN ... 159

Daily Patterns of Running Wheel Activity in Male Anophthalmic Mice
LAEMLE, L. K. AND J. E. OTTENWELLER 165

Developmental Sodium Restriction and Gustatory Afferent Terminal Field Organization in the Parabrachial Nucleus
WALKER, B. R. AND D. L. HILL 173

Effect of Olivocochlear Bundle Lesion on Locomotor Activity in Rats
HSIEH, Y.-L., T.-J. CHEN, C.-H. LIN AND S.-S. CHEN 179

Release of a Substance that Suppresses Spontaneous Motor Activity in the Brain by Physical Exercise
INOUE, K., H. YAMAZAKI, Y. MANABE, C. FUKUDA AND T. FUSHIKI 185

Leptin (*ob*) mRNA and Hypothalamic NPY in Food-deprived/Refed Syrian Hamsters
MERCER, J. G., B. BECK, A. BURLET, K. M. MOAR, N. HOGGARD, T. ATKINSON AND P. BARRETT 191

γ-Hydrobutyric Acid Intake in Ethanol-preferring sP and -nonpreferring sNP Rats
COLOMBO, G., R. AGABIO, G. DIAZ, M. FÀ, C. LOBINA AND R. REALI 197

Detection of Object Orientation and Spatial Changes by Mice: Importance of Local Views
ROULLET, P., G. BOZEC AND N. CARTON 203

Brief Communication

Intraspecific Variation in the Induction of Female Sexual Receptivity in Prairie Voles
ROBERTS, R. L., B. S. CUSHING AND C. S. CARTER 209

CONTENTS VOLUME 64 NUMBER 3 1998

Articles

Exercise-induced Increase in Core Temperature Does Not Disrupt a Behavioral Measure of Sleep
O'CONNOR, P. J., M. J. BREUS AND S. D. YOUNGSTEDT 213

Alterations in Swim Stress-induced Analgesia and Hypothermia Following Serotonergic or NMDA Antagonists in the Rostral Ventromedial Medulla of Rats
HOPKINS, E., M. SPINELLA, Z. W. PAVLOVIC AND R. J. BODNAR 219

Effects of Dopaminergic Drugs on Locomotor Activity in Teleost Fish of the Genus *Oreochromis* (Cichlidae): Involvement of the Telencephalon
MOK, E. Y.-M. AND A. D. MUNRO 227

Untrained Mice Discriminate MHC-Determined Odors
PENN, D. AND W. K. POTTS 235

Time-Course Studies on Plasma Glucose, Insulin, and Cortisol in Sea Bass (*Dicentrarchus labrax*) Held under Different Photoperiodic Regimes
CERDÁ-REVERTER, J. M., S. ZANUY, M. CARRILLO AND J. A. MADRID 245

A Search for the Metabolic Signal That Sensitizes Lateral Hypothalmic Self-Stimulation in Food-restricted Rats
CABEZA DE VACA, S., S. HOLIMAN AND K. D. CARR 251

Albumin Enhances Sleep in the Young Rat
OBÁL, F., JR, L. KAPÁS AND J. M. KRUEGER 261

Exercise-induced Slow Waves in the EEG of Cats
ÁNGYÁN, L. AND J. CZOPF 267

Relations Between Oral Stereotypies, Open-Field Behavior, and Pituitary—Adrenal System in Growing Dairy Cattle
REDBO, I. 273

Short-term Effects of Macronutrient Preloads on Appetite and Energy Intake in Lean Women
POPPITT, S. D., D. MCCORMACK AND R. BUFFENSTEIN 279

Temporal Dynamics of Corticosterone Elevation in Successive Negative Contrast
MITCHELL, C. AND C. FLAHERTY 287

Involvement of $GABA_A$ and $GABA_B$ Receptors in the Mediation of Discriminative Stimulus Effects of γ-Hydroxybutyric Acid
COLOMBO, G., R. AGABIO, C. LOBINA, R. REALI AND G. L. GESSA 293

Effects of Strawbedding on Physiological Responses to Stressors and Behavior in Growing Pigs
DE JONG, I. C., E. D. EKKEL, J. A. VAN DE BURGWAL, E. LAMBOOIJ, S. M. KORTE, M. A. W. RUIS, J. M. KOOLHAAS AND H. J. BLOKUIS 303

ACTH and β-Endorphin in Transcendental Meditation
INFANTE, J. R., F. PERAN, M. MARTINEZ, A. ROLDAN, R. POYATOS, C. RUIZ, F. SAMANIEGO AND F. GARRIDO 311

Influence of the Composition of a Meal Taken after Physical Exercise on Mood, Vigilance, Performance
VERGER, P., D. LAGARDE, D. BATEJAT AND J. F. MAITRE 317

Consumption of Elecrolytes and Quinine by Mouse Strains with Different Blood Pressures
BACHMANOV, A. A., G. SCHLAGER, M. G. TORDOFF AND G. K. BEAUCHAMP .. 323

Neural Substrates for Leptin and Neuropeptide Y (NPY) Interaction: Hypothalamic Sites Associated with Inhibition of NPY-induced Food Intake
YOKOSUKA, M., B. XU, S. PU, P. S. KALRA AND S. P. KALRA 331

Effects of Angiotensin II on Sexual Function, Blood Pressure, and Fluid Intake Are Differentially Affected by AT-1 Receptor Blockade
KEATON, A. K. AND J. T. CLARK 339

Effects of Age and Ethanol on Dopamine and Serotonin Release in the Rat Nucleus Accumbens
YOSHIMOTO, K., T. YOSHIDA, Y. SORIMACHI, A. HIRANO, Y. TAKEUCHI, S. UEDA AND M. YASUHARA 347

Effects of Social Status After Mixing on Immune, Metabolic, and Endocrine Responses in Pigs
TUCHSCHERER, M., B. PUPPE, A. TUCHSCHERER AND E. KANITZ 353

Subdiaphragmatic Vagotomy Does Not Block Sleep Deprivation-induced Sleep in Rats
HANSEN, M. K. AND J. M. KRUEGER 361

Intracerebroventricular Glucagon-like Peptide-1 (7–36) Amide Inhibits Sham Feeding in Rats without Eliciting Satiety
ASARIAN, L., E. S. CORP, B. HRUPKA AND N. GEARY 367

Medial Prefrontal Lesion Deficits Involving or Sparing the Prelimbic Area in the Rat
FRITTS, M. E., E. T. ASBURY, J. E. HORTON AND W. L. ISAAC 373

Ketamine Blocks a Condiditoned Taste Aversion (CTA) in Neonatal Rats
MICKLEY, G. A., M. A. SCHALDACH, K. J. SNYDER, S. A. BALOGH, T. LEN, K. NEIMANIS, P. GOULIS, J. HUG, K. SAUCHAK, D. R. REMMERS-ROEBER, C. WALKER AND B. K. YAMAMOTO 381

Manipulation of NMDA-Receptor Activity Alters Extinction of an Instrumental Response in Rats
PORT, R. L. AND K. S. SEYBOLD 391

Conditioned Inhibition of Antibody Response and CD4 Positive Cells
NAPOLITANO, F., G. DE ROSA, F. GRASSO, G. MIGLIORI AND A. BORDI 395

Plasma Cocaine Levels and Locomotor Activity after Systemic Injection in Virgin and in Lactating Maternal Female Rats
VERNOTICA, E. M. AND J. I. MORRELL 399

The Role of Specific Macronutrient Availability in the Effect of Food Restriction on Length of Lactational Diestrus in Rats
WOODSIDE, B., A. ABIZAID AND M. CAPORALE 409

Increased GABA-Gated Chloride Ion Influx in the Hypothalamus of Low-Anxiety Rats
IMAMURA, M. AND C. PRASAD 415

Brief Communication

New Apparatus for Studying Behavioral Thermoregulation in Rats
CHEN, X.-M., T. HOSONO, A. MIZUNO, T. YODA, K. YOSHIDA, Y. AOYAGI AND K. KANOSUE 419

Rapid Communication

Mammalian Bombesin-like Peptides Extend the Intermeal Interval in Freely Feeding Rats
THAW, A. K., J. C. SMITH AND J. GIBBS 425

Articles

Evidence from Urinary Cortisol That Maternal Behavior Is Related to Stress in Gorillas
BAHR, N. I., C. R. PRYCE, M. DÖBELI AND R. D. MARTIN 429

Effect of Prenatal Stress on Plasma Corticosterone and Catecholamines in Response to Footshock in Rats
WEINSTOCK, M., T. POLTYREV, D. SCHORER-APELBAUM, D. MEN AND R. MCCARTY 439

Effect of American Ginseng (*Panax quinquefolium*) on Male Copulatory Behavior in the Rat
MURPHY, L. L., R. S. CADENA, D. CHÁVEZ AND J. S. FERRARO 445

Intestinal Fat Suppressed Intake of Fat Longer than Intestinal Sucrose
FOSTER, L. A., K. BOESHORE AND R. NORGREN 451

Temporal Dynamics of Human Masticatory Sequences
GERSTNER, G. E. AND T. CIANFARANI 457

Acute, Early Thermal Experience Alters Weaning Onset in Rats
GERRISH, C. J., C. M. ONISCHAK AND J. R. ALBERTS 463

Relationship of Body Energy Status to Inflammation-induced Anorexia and Weight Loss
LENNIE, T. A. 475

Increased Flavor Acceptance and Preference Conditioned by the Postingestive Actions of Glucose
PÉREZ, C., F. LUCAS AND A. SCLAFANI 483

Evidence That Oral and Nutrient Reinforcers Differentially Condition Appetitive and Consummatory Responses to Flavors
MYERS, K. P. AND W. G. HALL 493

Maltodextrin Preloads Reduce Food Intake Without Altering the Appetiser Effect
YEOMANS, M. R., R. W. GRAY AND T. H. B. CONYERS 501

Sustained Stress Disrupts the Performance and Acquisition of Delayed Alternation in Rats
BAUMAN, R. A., J. J. WIDHOLM, S. GHOSH AND G. J. KANT 507

Age-related Effects on Reproductive Function and Sexual Competition in the Male Prosimian Primate, *Microcebus Murinus*
AUJARD, F. AND M. PERRET 513

Assessing Olfactory Performance in an Old World primate, *Macaca nemestrina*
HÜBENER, F. AND M. LASKA 521

Analysis of Steroid Hormone Levels in Female Mice at High Population Density
CHAPMAN, J. C., J. J. CHRISTIAN, M. A. PAWLIKOWSKI AND S. D. MICHAEL ... 529

Flavor Preferences Conditioned by Intragastric Sugar Infusions in Rats: Maltose Is More Reinforcing Than Sucrose
AZZARA, A. V. AND A. SCLAFANI 535

Vasopressin Administration Modulates Anxiety-related Behavior in Rats
APPENRODT, E., R. SCHNABEL AND H. SCHWARZBERG 543

The Olfactory Loss that Accompanies an HIV Infection
HORNUNG, D. E., D. B. KURTZ, C. B. BRADSHAW, D. M. SEIPEL, P. F. KENT, D. C. BLAIR AND P. EMKO 549

Synergy Between Amylin and Cholecystokinin for Inhibition of Food Intake in Mice
BHAVSAR, S., J. WATKINS AND A. YOUNG 557

Dietary Protein Restriction and Selective Preference for a Protein-Containing Diet in the Golden Hamster (*Mesocricetus auratus*)
DIBATTISTA, D. AND D. A. CAMPBELL 563

Brief Communications

The Relation Between Skin Conductance Level and Plus-Maze Behavior in Male Mice
SÜER, C., N. DOLU, C. ÖZESMI, O. SAHIN AND A. ÜLGEN 573

Sleep Patterns of the Volcano Mouse (*Neotomodon alstoni alstoni*)
AYALA-GUERRERO, F., L. VARGAS-REYNA, J. I. RAMOS AND G. MEXICANO .. 577

CONTENTS VOLUME 64 NUMBER 5 1998

Articles

Lipopolysaccharide-induced Anorexia Following Hepatic Portal Vein and Vena Cava Administration
PORTER, M. H., M. ARNOLD AND W. LANGHANS 581

Flavor Avoidance Learning and Its Implications in Reducing Strychnine Baiting Hazards to Nontarget Animals
EL HANI, A., J. R. MASON, D. L. NOLTE AND R. H. SCHMIDT 585

Chronic Mild Stress Has No Effect on Responding by Rats for Sucrose Under a Progressive Ratio Schedule
BARR, A. M. AND A. G. PHILLIPS 591

Sleep Loss and Performance: No "Safe" Duration of a Monotonous Task
GILLBERG, M. AND T. ÅKERSTEDT 599

Spatial Memory Under Acute Cold and Restraint Stress
STILLMAN, M. J., B. SHUKITT-HALE, A. LEVY AND H. R. LIEBERMAN 605

Social Stress in Neighboring and Encountering Blind Mole-Rats (*Spalax ehrenbergi*)
ZURI, I., A. GOTTREICH AND J. TERKEL 611

Effects of Home-Nest Odors on the Startle Response in Preweanling Rats
RICHARDSON, R. AND M. DEFINA 621

Sensorimotor Gating Changes Across the Estrous Cycle in Female Rats
KOCH, M. 625

Genetic and Environmental Influences on Self-Reported Diet: A Reared-Apart Twin Study
HUR, Y.-M, T. J. BOUCHARD JR. AND E. ECKERT 629

Biological and Behavioral Correlates of Quiet Sleep Respiration Rates in Infants
MONTGOMERY-DOWNS, H. AND E. B. THOMAN 637

Food Intake After Adrenaline and Noradrenaline Injections Into the Hypothalamic Paraventricular Nucleus in Pigeons
HAGEMANN, L. F., C. V. COSTA, L. Z. R. ZENI, C. G. FREITAS, J. MARINO-NETO AND M. A. PASCHOALINI 645

Effect of Acute Hypoglycemia on Visual Information Processing in Adults With Type 1 Diabetes Mellitus
EWING, F. M. E., I. J. DEARY, R. J. MCCRIMMON, M. W. J. STRACHAN AND B. M. FRIER 653

A Force Plate System for Measuring Low-Magnitude Reaction Forces in Small Laboratory Animals
HANDLEY, D. E., J. F. ROSS AND G. J. CARR 661

Reduced Exploratory Activity of Audiogenic Seizures Suceptible Wistar Rats
GARCIA-CAIRASCO, N., J. A. C. OLIVEIRA, H. WAKAMATSU, S. T. B. BUENO AND F. S. GUIMARÃES 671

Temperature Selection and Use of Torpor by the Marsupial *Sminthopsis macroura*
SONG, X., G. KÖRTNER AND F. GEISER 675

The Postnatal Emergence of Dehydration Anorexia in Rats is Temporally Associated With the Emergence of Dehydration-induced Inhibition of Gastric Emptying
CALLAHAN, J. B. AND L. RINAMAN 683

Bird Repellents: Interaction of Chemical Agents in Mixtures
CLARK, L. 689

Ultradian Rhythms in Young and Adult Mice: Further Support for the Basic Rest–Activity Cycle
D'OLIMPIO, F. AND P. RENZI 697

The Mirror Chamber Test for Testing Anxiolytics: Is There a Mirror-induced Stimulation?
LAMBERTY, Y. 703

Effects of Castration on Grooming in Goats
MOORING, M. S., A. J. GAVAZZI AND B. L. HART 707

Maternal and Pup Contributions to Different Patterns of Pub Growth in *Phodopus* Species
STULBERG, S. E. AND K. E. WYNNE-EDWARDS 715

Aromatase Activity and Regulation of Sexual Behaviors in the Green Anole Lizard
WINKLER, S. M. AND J. WADE 723

Effects of Acute and Chronic Social Stress on Blood Cellular Immunity in Rats
STEFANSKI, V. AND H. ENGLER 733

Effects of Overshadowing on Conditioned Nausea in Cancer Patients: An Experimental Study
STOCKHORST, U., J. A. WIENER, S. KLOSTERHALFEN, W. KLOSTERHALFEN, C. AUL AND H.-J. STEINGRÜBER 743

Firing Properties of Olfactory Bulb Neurons During Sniffing in Rats
OGAWA, Y. 755

Brief Communication

Within-session Response Rate in Rats Decreases as a Function of Amount Eaten
AOYAMA, K. 765

List of Contents, Author and Subject Index 776